INDEX TO
EXPERIMENTAL MECHANICS
Volume 26, 1986

Title Index

Acoustic-Backscattering Studies of Transverse Cracks in Composite Thick Laminates—B.B. Raju, 71-78 (Mar.).

Analysis of Elastic-Plastic Ball Indentation to Measure Strength of High-Strength Steels—J.H. Underwood, G.P. O'Hara and J.J. Zalinka, 379-385 (Dec.).

Analysis of Residual Stresses in Cylindrically Anisotropic Materials—Discussion by C.W. Bert, 112 (Mar.).

Application of an Image-Sensing Camera to the Measurement of Length and Velocity of Marks Printed on Specimens—T. Sawada, 22-27 (Mar.).

Assessment of Residual Stresses of Nonferrous Tubes Joined by Friction Welding—A. Moneim, A.A. Nasser, S.M. Serag, A.A. El Massery and R.F. Scrutton, 62-65 (Mar.).

Coherent Light Shadow Spot of a Crack Under Mode I Loading—S. Kamath and K.-S. Kim, 386-393 (Dec.).

Computer Method for Simulating Service Loads, A—M.K. Abdelhamid and K.G. McConnell, 42-46 (Mar.).

Crack-Growth Prediction in Axisymmetric Pull-Out and Tension Specimens—A.T. Andonian and F. Ansari, 79-88 (Mar.).

Crack-Growth Unidirectional Graphite-Epoxy Under Biaxial Loading—J.L. Beuth, M.A. Gregory and C.T. Herakovich, 245-253 (Sept.).

Crack-Length Measurement by Compliance in Fracture-Toughness Testing—R.F. Smith and P. Doig, 122-127 (June).

Cumulative Creep Damage for Polycarbonate and Polysulfone—M.J. Zhang and H.F. Brinson, 155-162 (June).

Damping Characterization of a Filled Epoxy Used for Dynamic Structural Modeling—I.D. Rogers, L.W. Zachary and K.G. McConnell, 283-291 (Sept.).

Determination of Dynamic Yield Strengths with Embedded Manganin Gages in Plate-Impact and Long-Rod Experiments—Z. Rosenberg and S. Bless, 279-282 (Sept.).

Determination of Loads Applied Perpendicularly to the Outer Boundary of a Ring Using Coefficients of Influence—A.J. Durelli and Y.H. Lin, 28-33 (Mar.).

Determination of Loads Between Elements in Granular Media—A.J. Durelli, D. Wu and Y.H. Lin, 136-141 (June).

Determination of Tensile Flow Stress Beyond Necking at Very High Strain Rate—A.M. Rajendran and S.J. Bless, 319-323 (Dec.).

Diplacement Gage for Rock-Mechanics Testing, A—D.J. Holcomb and M.J. McNamee, 217-223 (Sept.).

Dynamic Method for Measuring the Critical Loads of Elastic Flat Plates, A—A. Segall and G.S. Springer, 354-359 (Dec.).

Effect of a Centrally Located Midplane Delamination on the Instability of Composite Panels, The—G. Seifert and A. Palazotto, 330-336 (Dec.).

Elastic-Pulse Propagation in Thin Hollow Cones—Discussion by V.H. Kenner, 192-193 (June).

Energy Methods for Fracture-Toughness Determination in Concrete—C.G. Go and S.E. Swartz, 292-296 (Sept.).

Energy-Dissipation Characteristics of Steel Tubes—S.T. Choi, J.F. Carney and J.R.. Veillette, 301-305 (Dec.).

Engineering Failure Envelope for Adhesive Joints, An—E. Altus, O. Habur and J. Tirosh, 267-274 (Sept.).

Examination of the Computational Model for the Layer-Removal Method for Residual-Stress Measurement—W. Cheng and I. Finnie, 150-153 (June).

Experiment as an Aid to Structural Seismic Design—E.P. Popov, 194-208 (June).

Experimental and Analytical Characterization of Multidimensionally Braided Graphite/Epoxy Composites—R.M. Crane and E.T. Camponeschi, 259-266 (Sept.).

Experimental Eigenvalues and Mode Shapes for Flat Clamped Plates—C.R. Hazell and A.K. Mitchell, 337-344 (Dec.).

Experimental Investigation of How Accurate, Simply Supported Boundary Conditions Can Be Achieved in Compression Testing of Panels—J.M. Minguez, 238-244 (Sept.).

Experimental Observation of Stress Waves Propagating in Laminated Composites—T. Hayashi, R. Ugo and Y. Morimoto, 169-174 (June).

Extraction of Stress-Intensity Factors from Near-Tip Photoelastic Data, On the—C.W. Smith and O. Olaosebikan, 313-318 (Dec.).

Fractional Moiré Strain Analysis Using Digital Imaging Techniques—A.S. Voloshin, C.P. Burger, R.E. Rowlands and T.G. Richard, 254-258 (Sept.).

Fracture of Thick Laminated Composites—C.E. Harris and D.H. Morris, 34-41 (Mar.).

Hardware-Oriented Method for Simulating Service Loads, A—M.K. Abdelhamid and K.G. McConnell, 56-61 (Mar.).

High-Resolution Experimental Techniques for Cryomechanics—A Study of Mechanical Behavior of Materials at 4.2 K—H. Fujita and Y. Iwasa, 128-135 (June).

Image-Processing Techniques in Laser-Speckle Photography with Application to Hybrid Stress Analysis—E. Diez, D. Chambless, W. Swinson and J. Turner, 230-237 (Sept.).

In-Line Forces Acting on an Elastically Mounted Cylinder Oscillating in Still Water, The—K.G. McConnell and Q. Jiao, 66-70 (Mar.).

Influence of Fiber Length and Fiber Orientation on Damping and Stiffness of Polymer Composite Materials, The—S.A. Suarez, R.F. Gibson, C.T. Sun and S.K. Chaturvedi, 175-184 (June).

Investigation of the Pin Joints in Composites by the Moiré Method—S. Koshide, 113-118 (June).

Laser-Interferometric Dilatometer for Thermal-Expansion Measurements of Composites, A—S.S. Tompkins, D.E. Bowles and W.R. Kennedy, 1-6 (Mar.).

New Technique for Heating Specimens in Split-Hopkinson-Bar Experiments Using Induction-Coil Heaters, A—Z. Rosenberg, D. Dawicke, E. Strader and S. Bless, 275-278 (Sept.).

Photoelastic Stress Separation Along Lines of Symmetry—J.F. Doyle, 297-300 (Sept.).

Plastic Compressibility of 7075-T651 Aluminum-Alloy Plate, The—A.D. Freed and B.I. Sandor, 119-121 (June).

Plastic Flow Under Multiaxial Cyclic Loading—W.Y. Lu, 224-229 (Sept.).

Prediction of the Long-Term Creep Compliance of General Composite Laminates—M.E. Tuttle and H.F. Brinson, 89-102 (Mar.).

Residual-Stress Analysis of an Epoxy Plate Subjected to Rapid Cooling on Both Surfaces—C.E. Maneschy, Y. Miyano, M. Shimbo and T.C. Woo, 306-312 (Dec.).

Residual-Stress Determination Through Combined Use of Holographic Interferometry and Blind-Hole Drilling—D.V. Nelson and J.T. McCrikerd, 371-378 (Dec.).

Resistance-Foil Strain-Gage Technology as Applied to Composite Materials—Errata by M.E. Tuttle and H.F. Brinson, 153-154 (June).

Review: Acoustic Emission, a Tool for Composite-Materials Studies, A—M.A. Hamstad, 7-13 (Mar.).

Shear Characterization of Unidirectional Composites with the Off-Axis Tension Test—M.-J. Pindera and C.T. Herakovich, 103-112 (Mar.).

Significance of the Load Shift in Single-Edge-Notch Tension Tests—H. Ezzat and G. Sich, 142-149 (June).

Simplified Optical Method for Measuring Residual Stress by Rapid Cooling in Thermosetting Resin Strip, A—Y. Miyano, S. Nakamura, S. Sugimori, T. Kunio and T.C. Woo, 185-192 (June).

'SPATE' Stress Studies of Plates and Rings Under In-Plane Loading—P. Stanley and W.K. Chan, 360-370 (Dec.).

Spectral-Analysis Method for Nonstationary Field Measurements, A—M.K. Abdelhamid and K.G. McConnell, 47-55 (Mar.).

Study of the Axial-Torsional Coupling Effect on a Sagged Transmission Line, A—K.G. McConnell and C.N. Chan, 324-329 (Dec.).

INDEX TO
EXPERIMENTAL MECHANICS
Volume 26, 1986

Title Index

Acoustic-Backscattering Studies of Transverse Cracks in Composite Thick Laminates—B.B. Raju, 71-78 (Mar.).

Analysis of Elastic-Plastic Ball Indentation to Measure Strength of High-Strength Steels—J.H. Underwood, G.P. O'Hara and J.J. Zalinka, 379-385 (Dec.).

Analysis of Residual Stresses in Cylindrically Anisotropic Materials—Discussion by C.W. Bert, 112 (Mar.).

Application of an Image-Sensing Camera to the Measurement of Length and Velocity of Marks Printed on Specimens—T. Sawada, 22-27 (Mar.).

Assessment of Residual Stresses of Nonferrous Tubes Joined by Friction Welding—A. Moneim, A.A. Nasser, S.M. Serag, A.A. El Massery and R.F. Scrutton, 62-65 (Mar.).

Coherent Light Shadow Spot of a Crack Under Mode I Loading—S. Kamath and K.-S. Kim, 386-393 (Dec.).

Computer Method for Simulating Service Loads, A—M.K. Abdelhamid and K.G. McConnell, 42-46 (Mar.).

Crack-Growth Prediction in Axisymmetric Pull-Out and Tension Specimens—A.T. Andonian and F. Ansari, 79-88 (Mar.).

Crack-Growth Unidirectional Graphite-Epoxy Under Biaxial Loading—J.L. Beuth, M.A. Gregory and C.T. Herakovich, 245-253 (Sept.).

Crack-Length Measurement by Compliance in Fracture-Toughness Testing—R.F. Smith and P. Doig, 122-127 (June).

Cumulative Creep Damage for Polycarbonate and Polysulfone—M.J. Zhang and H.F. Brinson, 155-162 (June).

Damping Characterization of a Filled Epoxy Used for Dynamic Structural Modeling—I.D. Rogers, L.W. Zachary and K.G. McConnell, 283-291 (Sept.).

Determination of Dynamic Yield Strengths with Embedded Manganin Gages in Plate-Impact and Long-Rod Experiments—Z. Rosenberg and S. Bless, 279-282 (Sept.).

Determination of Loads Applied Perpendicularly to the Outer Boundary of a Ring Using Coefficients of Influence—A.J. Durelli and Y.H. Lin, 28-33 (Mar.).

Determination of Loads Between Elements in Granular Media—A.J. Durelli, D. Wu and Y.H. Lin, 136-141 (June).

Determination of Tensile Flow Stress Beyond Necking at Very High Strain Rate—A.M. Rajendran and S.J. Bless, 319-323 (Dec.).

Diplacement Gage for Rock-Mechanics Testing, A—D.J. Holcomb and M.J. McNamee, 217-223 (Sept.).

Dynamic Method for Measuring the Critical Loads of Elastic Flat Plates, A—A. Segall and G.S. Springer, 354-359 (Dec.).

Effect of a Centrally Located Midplane Delamination on the Instability of Composite Panels, The—G. Seifert and A. Palazotto, 330-336 (Dec.).

Elastic-Pulse Propagation in Thin Hollow Cones—Discussion by V.H. Kenner, 192-193 (June).

Energy Methods for Fracture-Toughness Determination in Concrete—C.G. Go and S.E. Swartz, 292-296 (Sept.).

Energy-Dissipation Characteristics of Steel Tubes—S.T. Choi, J.F. Carney and J.R.. Veillette, 301-305 (Dec.).

Engineering Failure Envelope for Adhesive Joints, An—E. Altus, O. Habur and J. Tirosh, 267-274 (Sept.).

Examination of the Computational Model for the Layer-Removal Method for Residual-Stress Measurement—W. Cheng and I. Finnie, 150-153 (June).

Experiment as an Aid to Structural Seismic Design—E.P. Popov, 194-208 (June).

Experimental and Analytical Characterization of Multidimensionally Braided Graphite/Epoxy Composites—R.M. Crane and E.T. Camponeschi, 259-266 (Sept.).

Experimental Eigenvalues and Mode Shapes for Flat Clamped Plates—C.R. Hazell and A.K. Mitchell, 337-344 (Dec.).

Experimental Investigation of How Accurate, Simply Supported Boundary Conditions Can Be Achieved in Compression Testing of Panels—J.M. Minguez, 238-244 (Sept.).

Experimental Observation of Stress Waves Propagating in Laminated Composites—T. Hayashi, R. Ugo and Y. Morimoto, 169-174 (June).

Extraction of Stress-Intensity Factors from Near-Tip Photoelastic Data, On the—C.W. Smith and O. Olaosebikan, 313-318 (Dec.).

Fractional Moiré Strain Analysis Using Digital Imaging Techniques—A.S. Voloshin, C.P. Burger, R.E. Rowlands and T.G. Richard, 254-258 (Sept.).

Fracture of Thick Laminated Composites—C.E. Harris and D.H. Morris, 34-41 (Mar.).

Hardware-Oriented Method for Simulating Service Loads, A—M.K. Abdelhamid and K.G. McConnell, 56-61 (Mar.).

High-Resolution Experimental Techniques for Cryomechanics—A Study of Mechanical Behavior of Materials at 4.2 K—H. Fujita and Y. Iwasa, 128-135 (June).

Image-Processing Techniques in Laser-Speckle Photography with Application to Hybrid Stress Analysis—E. Diez, D. Chambless, W. Swinson and J. Turner, 230-237 (Sept.).

In-Line Forces Acting on an Elastically Mounted Cylinder Oscillating in Still Water, The—K.G. McConnell and Q. Jiao, 66-70 (Mar.).

Influence of Fiber Length and Fiber Orientation on Damping and Stiffness of Polymer Composite Materials, The—S.A. Suarez, R.F. Gibson, C.T. Sun and S.K. Chaturvedi, 175-184 (June).

Investigation of the Pin Joints in Composites by the Moiré Method—S. Koshide, 113-118 (June).

Laser-Interferometric Dilatometer for Thermal-Expansion Measurements of Composites, A—S.S. Tompkins, D.E. Bowles and W.R. Kennedy, 1-6 (Mar.).

New Technique for Heating Specimens in Split-Hopkinson-Bar Experiments Using Induction-Coil Heaters, A—Z. Rosenberg, D. Dawicke, E. Strader and S. Bless, 275-278 (Sept.).

Photoelastic Stress Separation Along Lines of Symmetry—J.F. Doyle, 297-300 (Sept.).

Plastic Compressibility of 7075-T651 Aluminum-Alloy Plate, The—A.D. Freed and B.I. Sandor, 119-121 (June).

Plastic Flow Under Multiaxial Cyclic Loading—W.Y. Lu, 224-229 (Sept.).

Prediction of the Long-Term Creep Compliance of General Composite Laminates—M.E. Tuttle and H.F. Brinson, 89-102 (Mar.).

Residual-Stress Analysis of an Epoxy Plate Subjected to Rapid Cooling on Both Surfaces—C.E. Maneschy, Y. Miyano, M. Shimbo and T.C. Woo, 306-312 (Dec.).

Residual-Stress Determination Through Combined Use of Holographic Interferometry and Blind-Hole Drilling—D.V. Nelson and J.T. McCrikerd, 371-378 (Dec.).

Resistance-Foil Strain-Gage Technology as Applied to Composite Materials—Errata by M.E. Tuttle and H.F. Brinson, 153-154 (June).

Review: Acoustic Emission, a Tool for Composite-Materials Studies, A—M.A. Hamstad, 7-13 (Mar.).

Shear Characterization of Unidirectional Composites with the Off-Axis Tension Test—M.-J. Pindera and C.T. Herakovich, 103-112 (Mar.).

Significance of the Load Shift in Single-Edge-Notch Tension Tests—H. Ezzat and G. Sich, 142-149 (June).

Simplified Optical Method for Measuring Residual Stress by Rapid Cooling in Thermosetting Resin Strip, A—Y. Miyano, S. Nakamura, S. Sugimori, T. Kunio and T.C. Woo, 185-192 (June).

'SPATE' Stress Studies of Plates and Rings Under In-Plane Loading—P. Stanley and W.K. Chan, 360-370 (Dec.).

Spectral-Analysis Method for Nonstationary Field Measurements, A—M.K. Abdelhamid and K.G. McConnell, 47-55 (Mar.).

Study of the Axial-Torsional Coupling Effect on a Sagged Transmission Line, A—K.G. McConnell and C.N. Chan, 324-329 (Dec.).

Toward More Accurate Residual-Stress Measurement by the Hole-Drilling Method: Analysis of Relieved-Strain Coefficients—M. Kabiri, 14-21 (Mar.).
Transient Thermal Stresses in Fully and Partly Cooled Circular Rings—T. Iwaki, 163-168 (June).
Wrinkling of Elastoplastic Circular Plates During Stamping—W.J. Stronge, M.P.F. Sutcliffe and T.X. Yu, 345-353 (Dec.).

Author Index

Abdelhamid, M.K.—A Computer Method for Simulating Service Loads, 42-46 (Mar.).
A Spectral-Analysis Method for Nonstationary Field Measurements, 47-55 (Mar.).
A Hardware-Oriented Method for Simulating Service Loads, 56-61 (Mar.).
Altus, E.—An Engineering Failure Envelope for Adhesive Joints, 267-274 (Sept.).
Andonian, A.T.—Crack-Growth Prediction in Axisymmetric Pull-Out and Tension Specimens, 79-88 (Mar.).
Ansari, F.—Crack-Growth Prediction in Axisymmetric Pull-Out and Tension Specimens, 79-88 (Mar.).
Bert, C.W.—Analysis of Residual Stresses in Cylindrically Anisotropic Materials, Discussion, 112 (Mar.).
Beuth, J.L.—Crack Growth Unidirectional Graphite-Epoxy Under Biaxial Loading, 245-253 (Sept.).
Bless, S.—A New Technique for Heating Specimens in Split-Hopkinson-Bar Experiments Using Induction-Coil Heaters, 275-278 (Sept.).
Determination of Dynamic Yield Strengths with Embedded Manganin Gages in Plate-Impact and Long-Rod Experiments, 279-282 (Sept.).
Determination of Tensile Flow Stress Beyond Necking at Very High Strain Rate, 319-323 (Dec.).
Bowles, D.E.,—A Laser-Interferometric Dilatometer for Thermal-Expansion Measurements of Composites, 1-6 (Mar.).
Brinson, H.F.—Prediction of the Long-Term Creep Compliance of General Composite Laminates, 89-102 (Mar.).
Resistance-Foil Strain-Gage Technology as Applied to Composite Materials, Errata, 153-154 (June).
Cumulative Creep Damage for Polycarbonate and Polysulfone, 155-162 (June).
Burger, C.P.—Fractional Moiré Strain Analysis Using Digital Imaging Techniques, 254-258 (Sept.).
Camponeschi, E.T.—Experimental and Analytical Characterization of Multidimensionally Braided Graphite/Epoxy Composites, 259-266 (Sept.).
Carney, J.F.—Energy-Dissipation Characteristics of Steel Tubes, 301-305 (Dec.).
Chambless, D.—Image-Processing Techniques in Laser-Speckle Photography with Application to Hybrid Stress Analysis, 230-237 (Sept.).
Chan, C.N.—A Stress Study of the Axial-Torsional Coupling Effect on a Sagged Transmission Line, 324-329 (Dec.).
Chan, W.K.—'SPATE' Stress Studies of Plates and Rings Under In-Plane Loading, 360-370 (Dec.).
Chaturvedi, S.K.—The Influence of Fiber Length and Fiber Orientation on Damping and Stiffness of Polymer Composite Materials, 175-184 (June).
Cheng, W.—Examination of the Computational Model for the Layer-Removal Method for Residual-Stress Measurement, 150-153 (June).
Choi, S.T.—Energy-Dissipation Characteristics of Steel Tubes, 301-305 (Dec.).
Crane, R.M.—Experimental and Analytical Characterization of Multidimensionally Braided Graphite/Epoxy Composites, 259-266 (Sept.).
Dawicke, D.—A New Technique for Heating Specimens in Split-Hopkinson-Bar Experiments Using Induction-Coil Heaters, 275-278 (Sept.).
Diez, E.—Image-Processing Techniques in Laser-Speckle Photography with Application to Hybrid Stress Analysis, 230-237 (Sept.).
Doig, P.—Crack-Length Measurement by Compliance in Fracture-Toughness Testing, 122-127 (June).
Doyle, J.F.—Photoelastic Stress Separation Along Lines of Symmetry, 297-300 (Sept.).
Durelli, A.J.—Determination of Loads Applied Perpendicularly to the Outer Boundary of a Ring Using Coefficients of Influence, 28-33 (Mar.).
Determination of Loads Between Elements in Granular Media, 136-141 (June).
El Massery, A.A.—Assessment of Residual Stresses of Nonferrous Tubes Joined by Friction Welding, 62-65 (Mar.).
Ezzat, H.—Significance of the Load Shift in Single-Edge-Notch Tension Tests, 142-149 (June).
Finnie, I.—Examination of the Computational Model for the Layer-Removal Method for Residual-Stress Measurement, 150-153 (June).
Freed, A.D.—The Plastic Compressibility of 7075-T651 Aluminum-Alloy Plate, 119-121 (June).
Fujita, H.—High-Resolution Experimental Techniques for Cryomechanics—A Study of Mechanical Behavior of Materials at 4.2 K, 128-135 (June).
Gibson, R.F.—The Influence of Fiber Length and Fiber Orientation on Damping and Stiffness of Polymer Composite Materials, 175-184 (June).
Go, C.G.—Energy Methods for Fraction-Toughness Determination in Concrete, 292-296 (Sept.).
Gregory, M.A.—Crack Growth Unidirectional Graphite-Epoxy Under Biaxial Loading, 245-253 (Sept.).
Habur, O.—An Engineering Failure Envelope for Adhesive Joints, 267-274 (Sept.).
Hamstad, M.A.—A Review: Acoustic Emission, a Tool for Composite-Materials Studies, 7-13 (Mar.).
Harris, C.E.—Fracture of Thick Laminated Composites, 34-41 (Mar.).
Hayashi, T.—Experimental Observation of Stress Waves Propagating in Laminated Composites, 169-174 (June).
Hazell, C.R.—Experimental Eigenvalues and Mode Shapes for Flat Clamped Plates, 337-344 (Dec.).
Herakovich, C.T.—Shear Characterization of Unidirectional Composites With the Off-Axis Tension Test, 103-112 (Mar.).
Crack Growth Unidirectional Graphite-Epoxy Under Biaxial Loading, 245-253 (Sept.).
Holcomb, D.J.—A Displacement Gage for Rock-Mechanics Testing, 217-223 (Sept.).
Iwaki, T.—Transient Thermal Stresses in Fully and Partly Cooled Circular Rings, 163-168 (June).
Iwasa, Y.—High-Resolution Experimental Techniques for Cryomechanics—A Study of Mechanical Behavior of Materials at 4.2 K, 128-135 (June).
Jiao, Q.—The In-Line Forces Acting on an Elastically Mounted Cylinder Oscillating in Still Water, 66-70 (Mar.).
Kabiri, M.—Toward More Accurate Residual-Stress Measurement by the Hole-Drilling Method: Analysis of Relieved-Strain Coefficients, 14-21 (Mar.).
Kamath, S.—Coherent Light Shadow Spot of a Crack Under Mode I Loading, 386-393 (Dec.).
Kennedy, W.R.—A Laser-Interferometric Dilatometer for Thermal-Expansion Measurements of Composites, 1-6 (Mar.).
Kenner, V.H.—Elastic-Pulse Propagation in Thin Hollow Cones, Discussion, 192-193 (June).
Kim, K.-S.—Coherent Light Shadow Spot of a Crack Under Mode I Loading, 386-393 (Dec.).
Koshide, S.—Investigation of the Pin Joints in Composites by the Moiré Method, 113-118 (June).
Kunio, T.—A Simplified Optical Method for Measuring Residual Stress by Rapid Cooling in Thermosetting Resin Strip, 185-192 (June).
Lin, Y.H.—Determination of Loads Applied Perpendicularly to the Outer Boundary of a Ring Using Coefficients of Influence, 28-33 (Mar.).
Determination of Loads Between Elements of Granular Media, 136-141 (June).
Lu, W.Y.—Plastic Flow Under Multiaxial Cyclic Loading, 224-229 (Sept.).
Maneschy, C.E.—Residual-Stress Analysis of an Epoxy Plate Subjected to Rapid Cooling on Both Surfaces, 306-312 (Dec.).
McConnell, K.G.—A Computer Method for Simulating Service Loads, 42-46 (Mar.).
A Spectral-Analysis Method For Nonstationary Field Measurements, 47-55 (Mar.).
A Hardware-Oriented Method for Simulating Service Loads, 56-61 (Mar.).
The In-Line Forces Acting on an Elastically Mounted Cylinder Oscillating in Still Water, 66-70 (Mar.).
Damping Characterization of a Filled Epoxy Used for Dy-

namic Structural Modeling, 283-291 (Sept.).
A Study of the Axial-Torsional Coupling Effect on a Sagged Transmission Line, 324-329 (Dec.).
McCrikerd, J.T.—Residual-Stress Determination Through Combined Use of Holographic Interferometry and Blind-Hole Drilling, 371-378 (Dec.).
McNamee, M.J.—A Displacement Gage for Rock-Mechanics Testing, 217-223 (Sept.).
Minguez, J.M.—Experimental Investigation of How Accurate, Simply Supported Boundary Conditions Can Be Achieved in Compression Testing of Panels, 238-244 (Sept.).
Mitchell, A.K.—Experimental Eigenvalues and Mode Shapes for Flat Clamped Plates, 337-344 (Dec.).
Miyano, Y.—A Simplified Optical Method for Measuring Residual Stress by Rapid Cooling in Thermosetting Resin Strip, 185-192 (June).
Residual-Stress Analysis of an Epoxy Plate Subjected to Rapid Cooling on Both Surfaces, 306-312 (Dec.).
Moneim, A.—Assessment of Residual Stresses of Nonferrous Tubes Joined by Friction Welding, 62-65 (Mar.).
Morimoto, Y.—Experimental Observation of Stress Waves Propagating in Laminated Composites, 169-174 (June).
Morris, D.H.—Fracture of Thick Laminated Composites, 34-41 (Mar.).
Nakamura, S.—A Simplified Optical Method for Measuring Residual Stress by Rapid Cooling in Thermosetting Resin Strip, 185-192 (June).
Nasser, S.M.—Assessment of Residual Stresses of Nonferrous Tubes Joined by Friction Welding, 62-65 (Mar.).
Nelson, D.V.—Residual-Stress Determination Through Combined Use of Holographic Interferometry and Blind-Hole Drilling, 371-378 (Dec.).
O'Hara, G.P.—Analysis of Elastic-Plastic Ball Indentation to Measure Strength of High-Strength Steels, 379-385 (Dec.).
Olaosebikan, O.—On the Extraction of Stress-Intensity Factors from Near-Tip Photoelastic Data, 313-318 (Dec.).
Palazotto, A.—The Effect of a Centrally Located Midplane Delamination on the Instability of Composite Panels, 330-336 (Dec.).
Pindera, M.-J.—Shear Characterization of Unidirectional Composites with the Off-Axis Tension Test, 103-112 (Mar.).
Popov, E.P.—Experiment as an Aid to Structural Seismic Design, 194-208 (June).
Rajendran, A.M.—Determination of Tensile Flow Stress Beyond Necking at Very High Strain Rate, 319-323 (Dec.).
Raju, B.B.—Acoustic-Backscattering Studies of Transverse Cracks in Composite Thick Laminates, 71-78 (Mar.).
Richard, T.G.—Fractional Moiré Strain Analysis Using Digital Imaging Techniques, 254-258 (Sept.).
Rogers, I.D.—Damping Characterization of a Filled Epoxy Used for Dynamic Structural Modeling, 283-291 (Sept.).
Rosenberg, Z.—A New Technique for Heating Specimens in Split-Hopkinson-Bar Experiments Using Induction-Coil Heaters, 275-278 (Sept.).
Determination of Dynamic Yield Strengths with Embedded Manganin Gages in Plate-Impact and Long-Rod Experiments, 279-282 (Sept.).
Rowlands, R.E.—Fractional Moiré Strain Analysis Using Digital Imaging Techniques, 254-258 (Sept.).
Sandor, B.I.—The Plastic Compressibility of 7075-T651 Aluminum-Alloy Plate, 119-121 (June).
Sawada, T.—Application of an Image-Sensing Camera to the Measurement of Length and Velocity of Marks Printed on Specimens, 22-27 (Mar.).
Scrutton, R.F.—Assessment of Residual Stresses of Nonferrous Tubes Joined by Friction Welding, 62-65 (Mar.).
Segall, A.—A Dynamic Method for Measuring the Critical Loads of Elastic Flat Plates, 354-359 (Dec.).
Seifert, G.—The Effect of a Centrally Located Midplane Delamination on the Instability of Composite Panels, 330-336 (Dec.).
Serag, S.M.—Assessment of Residual Stresses of Nonferrous Tubes Joined by Friction Welding, 62-65 (Mar.).
Shimbo, M.—Residual-Stress Analysis of an Epoxy Plate Subjected to Rapid Cooling on Both Surfaces, 306-312 (Dec.).
Sich, G.—Significance of the Load Shift in Single-Edge-Notch Tension Tests, 142-149 (June).
Smith, C.W.—On the Extraction of Stress-Intensity Factors from Near-Tip Photoelastic Data, 313-318 (Dec.).
Smith, R.F.—Crack-Length Measurement by Compliance in Fracture-Toughness Testing, 122-127 (June).
Springer, G.S.—A Dynamic Method for Measuring the Critical Loads of Elastic Flat Plates, 354-359 (Dec.).
Stanley, P.—'SPATE' Stress Studies of Plates and Rings Under In-Plane Loading, 360-370 (Dec.).
Strader E.—A New Technique for Heating Specimens in Split-Hopkinson-Bar Experiments Using Induction-Coil Heaters, 275-278 (Sept.).
Stronge, W.J.—Wrinkling of Elastoplastic Circular Plates During Stamping, 345-353 (Dec.).
Suarez, S.A.—The Influence of Fiber Length and Fiber Orientation on Damping and Stiffness of Polymer Composite Materials, 175-184 (June).
Sugimori, S.—A Simplified Optical Method for Measuring Residual Stress by Rapid Cooling in Thermosetting Resin Strip, 185-192 (June).
Sun, C.T.—The Influence of Fiber Length and Fiber Orientation on Damping and Stiffness of Polymer Composite Materials, 175-184 (June).
Sutcliffe, M.P.F.—Wrinkling of Elastoplastic Circular Plates During Stamping, 345-353 (Dec.).
Swartz, S.E.—Energy Methods for Fracture-Toughness Determination in Concrete, 292-296 (Sept.).
Swinson, W.—Image-Processing Techniques in Laser-Speckle Photography with Application to Hybrid Stress Analysis, 230-237 (Sept.).
Tirosh, J.—An Engineering Failure Envelope for Adhesive Joints, 267-274 (Sept.).
Tompkins, S.S.—A Laser-Interferometric Dilatometer for Thermal-Expansion Measurements of Composites, 1-6 (Mar.).
Turner, J.—Image-Processing Techniques in Laser-Speckle Photography with Application to Hybrid Stress Analysis, 230-237 (Sept.).
Tuttle, M.E.—Prediction of the Long-Term Creep Compliance of General Composite Laminates, 89-102 (Mar.).
Resistance-Foil Strain-Gage Technology as Applied to Composite Materials, Errata, 153-154 (June).
Ugo, R.—Experimental Observation of Stress Waves Propagating in Laminated Composites, 169-174 (June).
Underwood, J.H.—Analysis of Elastic-Plastic Ball Indentation to Measure Strength of High-Strength Steels, 379-385 (Dec.).
Veillette, J.R.—Energy-Dissipation Characteristics of Steel Tubes, 301-305 (Dec.).
Voloshin, A.S.—Fractional Moiré Strain Analysis Using Digital Imaging Techniques, 254-258 (Sept.).
Woo, T.C.—A Simplified Optical Method for Measuring Residual Stress by Rapid Cooling in Thermosetting Resin Strip, 185-192 (June).
Residual-Stress Analysis of an Epoxy Plate Subjected to Rapid Cooling on Both Surfaces, 306-312 (Dec.).
Wu, D.—Determination of Loads Between Elements in Granular Media, 136-141 (June).
Yu, T.X.—Wrinkling of Elastoplastic Circular Plates During Stamping, 345-353 (Dec.).
Zachary, L.W.—Damping Characterization of a Filled Epoxy Used for Dynamic Structural Modeling, 283-291 (Sept.).
Zalinka, J.J.—Analysis of Elastic-Plastic Ball Indentation to Measure Strength of High-Strength Steels, 379-385 (Dec.).
Zhang, M.J.—Cumulative Creep Damage for Polycarbonate and Polysulfone, 155-162 (June).

STATEMENT OF OWNERSHIP, MANAGEMENT AND CIRCULATION